

$$x^2 + y^2 = r^2$$

$$r = 4$$

$$x^2 + y^2 = 16$$

$$A = \pi r^2$$

$$y^2 = 16 - x^2$$

$$A = 16\pi$$

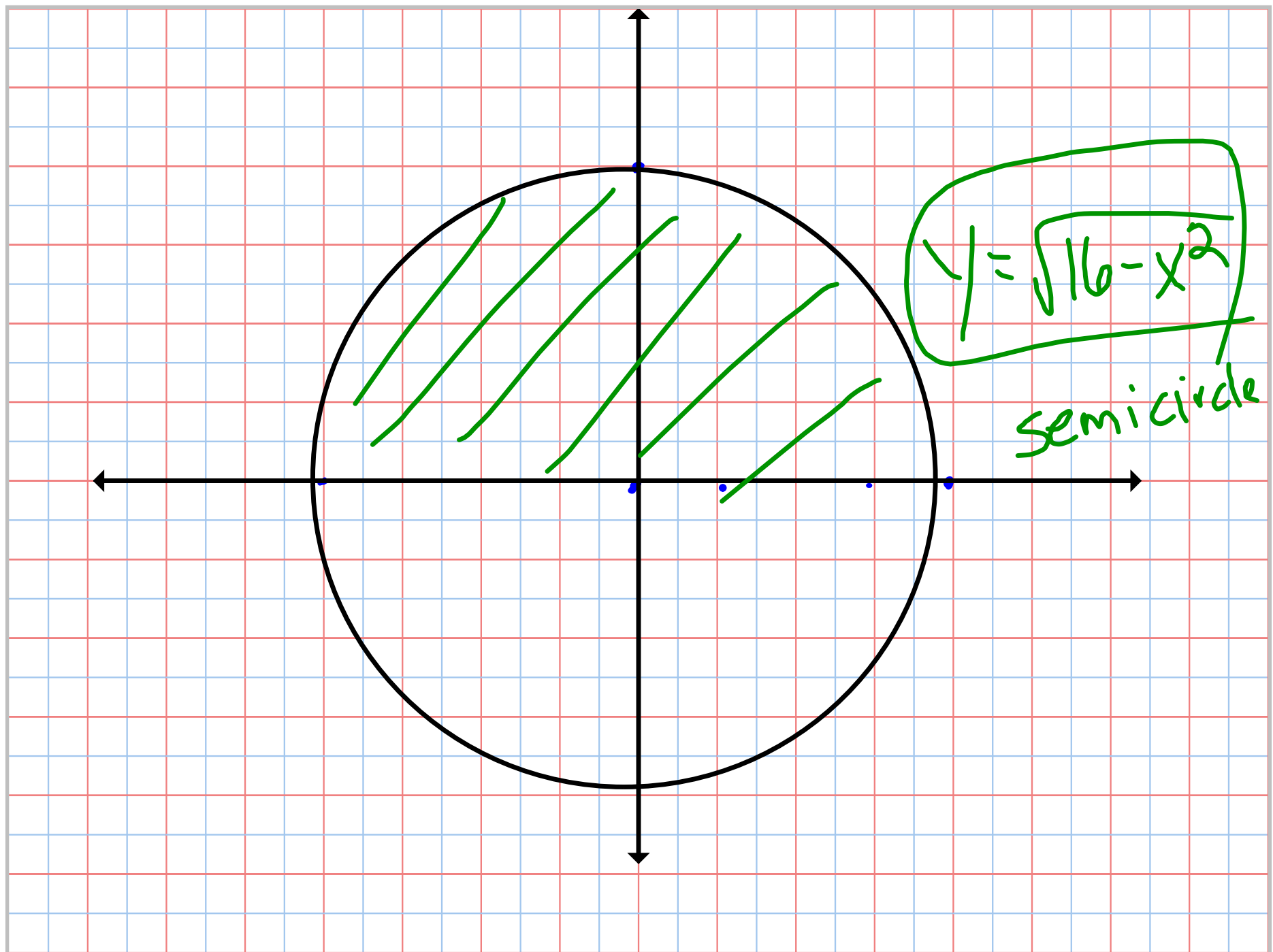
$$\text{semiCircle} = 8\pi$$

$$y = \sqrt{16 - x^2}$$

top 1/2

$$y = -\sqrt{16 - x^2}$$

bottom 1/2



HW  
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